

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (previously presented): An electrical connector comprising:

a conductor exposed from a covering;

a connection portion of the conductor connected to a connection portion of a terminal;

a connector housing receiving the terminal;

an impedance control means fixed on the connection portions of the conductor and the terminal; and

a second covering that covers a part of the covering, the impedance control means and a part of the connector housing, wherein

the impedance control means is a foam resin controlling an impedance in terms of a foam ratio that is selected so that an impedance of the connection portions substantially match the impedance of the covering of the conductor.

2. -3. (canceled).

4. (currently amended): The electrical connector according to claim 1, wherein the foam resinelement functions as a capacitive capacitor.

5. (original): The electrical connector according to claim 1,

wherein respective connection portions of the conductor and the terminal are located in a cavity of the connector housing,

wherein the connector housing is made of a foamed resin.

6. (currently amended): The electrical connector according to claim 1,

wherein the foam ratio ~~of the foam element~~ is greater than 0% and 80% or less.

7. (currently amended): The electrical connector according to claim 1,

wherein the foam resinelement has strength to maintain a structure thereof.

8. (previously presented): A method of fabricating an electrical connector, comprising:
connecting a connection portion of a terminal and a connection portion of a conductor exposed from a covering to each other;

receiving the terminal in a connector housing;

fixing impedance control means on the connection portions of the conductor and the terminal; and

covering a part of the covering, the impedance control means and a part of the connector housing with a second covering;

wherein the impedance control means is a foam resin controlling an impedance in terms of a foam ratio that is selected so that an impedance of the connection portions substantially match the impedance of the covering of the conductor.

9. (currently amended): The method of fabricating an electrical connector according to claim 8,

wherein the foam resinelement is controlled to be approximate in impedance to the covering.

10. (currently amended): The method of fabricating an electrical connector according to claim 8,

wherein the foam resinelement is molded to cover respective connection portions.

11. (currently amended): The method of fabricating an electrical connector according to claim 8,

wherein the foam resinelement is formed into a predetermined shape to be fitted to respective connection portions.

12. (currently amended): The method of fabricating an electrical connector according to claim 8,

wherein the foam resinelement is formed as a tape to be wound around respective connection portions.

13. (previously presented): An electrical connector comprising:

a cable comprising:

an electrical wire including a conductor exposed from a first covering;

a drain wire arrayed parallel to the electric wire; and

a jacket holding the electric wire and the drain wire;
a connection terminal having a connection portion connected to an end of the conductor;
an earth terminal having a connection portion connected to an end of the drain wire;
a connector housing receiving the connection terminal and the earth terminal; and
a second covering located around a foam resin, wherein
the foam resin is configured to control an impedance in terms of a foam ratio that is
selected so that an impedance of the connection portion substantially matches an impedance of a
the first covering.

14. (previously presented): A cable comprising:
an electric wire having a conductor exposed from a covering.
a connection portion of the electric wire connected to a connection portion of a terminal;
a connector housing receiving the terminal;
a foam element fixed on the connection portions of the electric wire and the terminal; and
a second covering that covers a part of the covering, the foam element and a part of the
connector housing,

wherein the foam element is a foam resin controlling an impedance in terms of a foam
ratio that is selected so that an impedance of the connection portions substantially match the
impedance of the covering of the electric wire.

15. (previously presented): A connector for a signal transmission cable, comprising:
a connector housing;
a terminal fixed to the connector housing;

a cable conductor exposed from a covering and electrically connected to the terminal by welding within the connector housing;

an impedance control means fixed on a connection of the terminal and the cable conductor; and

a second covering that covers a part of the covering, the impedance control means and a part of the connector housing,

wherein impedance control means is a foam resin controlling an impedance in terms of a foam ratio that is selected so that an impedance of the connection of the terminal and the cable conductor substantially match the impedance of the covering of the cable conductor.

16. (original): The connector for a signal transmission cable according to claim 15, wherein the connection portions include a molten alloy layer.

17. (currently amended): The method of fabricating a connector for a signal transmission cable, comprising:

welding a terminal and a cable conductor having a covering to make a connection portion;

inserting the terminal in a housing;

preparing a foamable resin;

locating connection portions of the terminal and the cable conductor in a die;

feeding the foamable resin into the die for extrusion to cover the connection portion with a foam element;

forming a second covering that covers a part of the covering, the foamable resin and a part of the housing,

wherein foamable resin is configured to control an impedance in terms of a foam ratio that is selected so that an impedance of the connection ~~portions~~portions of the terminal and the cable conductor substantially match the impedance of the covering of the cable conductor.

18. (currently amended): A method of fabricating a connector for a signal transmission cable, comprising:

welding a terminal and a cable conductor to each other for connection;

forming a pair of foam resin covering members preliminarily formed into shapes which conform to an upper half shape and a lower half shape of connection portions of the terminal and the cable conductor;

fitting said pair of covering members around the connection portions of the terminal and the cable conductor; and

molding a resin for a connector housing around the terminal, the pair of foam resin covering members, and the cable conductor exposed from a covering, thus to form the connector housing in a predetermined shape,

wherein the ~~resin is a~~ foam resin configured to control an impedance in terms of a foam ratio that is selected so that an impedance of the connection of the terminal and the cable conductor substantially match the impedance of the pair of covering members.

19. (currently amended): A method of fabricating a connector for a signal transmission cable, comprising:

welding a terminal and a cable conductor for connection;
preparing a foam resin tape;
winding the foam resin tape a predetermined number of times around connection portions of the terminal and the cable conductor to cover the connection portions;
molding a resin for a connector housing around the terminal, the foam resin tape, and the cable conductor exposed from a covering, thus to form a connector housing in a predetermined shape,

wherein the foam resin tape is configured to control an impedance in terms of a foam ratio that is selected so that an impedance of the connection of the terminal and the cable conductor substantially match the impedance of the covering of the conductor formed by the resin.

20. (previously presented): The method of fabricating a connector for a signal transmission cable, according to claim 18, wherein the foam resin has a predetermined foam ratio selected to substantially match the impedance of the connection portions with a covering of the cable conductor.

21. (currently amended): An electrical connector according to claim 1, wherein the foam resin ~~is~~ fills a surrounding space defined by the connection portions and the second covering.